use AdventureWorks2017;

-- Ranked order of Vendors by purchase amount $

select Vendor.BusinessEntityID, sum(PurchaseOrderHeader.TotalDue) as amount , rank() over (order by sum(PurchaseOrderHeader.TotalDue) desc) as rank

from Purchasing.Vendor

join Purchasing.PurchaseOrderHeader ON Vendor.BusinessEntityID=PurchaseOrderHeader.VendorID

group by Vendor.BusinessEntityID

order by rank

select Vendor.BusinessEntityID, sum(PurchaseOrderHeader.SubTotal) as amount , rank() over (order by sum(PurchaseOrderHeader.SubTotal) desc) as rank

from Purchasing.Vendor

join Purchasing.PurchaseOrderHeader ON Vendor.BusinessEntityID=PurchaseOrderHeader.VendorID

group by Vendor.BusinessEntityID

order by rank

select Vendor.BusinessEntityID, sum(PurchaseOrderDetail.LineTotal\*PurchaseOrderDetail.UnitPrice) as amount , rank() over (order by sum(PurchaseOrderHeader.TotalDue) desc) as rank

from Purchasing.Vendor

join Purchasing.PurchaseOrderHeader ON Vendor.BusinessEntityID=PurchaseOrderHeader.VendorID

join Purchasing.PurchaseOrderDetail on PurchaseOrderHeader.PurchaseOrderID=PurchaseOrderDetail.PurchaseOrderID

group by Vendor.BusinessEntityID

order by rank

--Ranked order of products purchased by amount $

--By category

select p.Name,sum(po.TotalDue) as 'Amount', rank() over (order by sum(po.TotalDue)) Rank

from Production.ProductCategory pc

join Production.ProductSubcategory ps on ps.ProductCategoryID=pc.ProductCategoryID

join Production.Product p on p.ProductSubcategoryID=ps.ProductSubcategoryID

join Purchasing.PurchaseOrderDetail pd on pd.ProductID=p.ProductID

join Purchasing.PurchaseOrderHeader po on po.PurchaseOrderID=pd.PurchaseOrderID

group by p.Name

order by rank

select p.Name,sum(po.SubTotal) as 'Amount', rank() over (order by sum(po.SubTotal)) Rank

from Production.ProductCategory pc

join Production.ProductSubcategory ps on ps.ProductCategoryID=pc.ProductCategoryID

join Production.Product p on p.ProductSubcategoryID=ps.ProductSubcategoryID

join Purchasing.PurchaseOrderDetail pd on pd.ProductID=p.ProductID

join Purchasing.PurchaseOrderHeader po on po.PurchaseOrderID=pd.PurchaseOrderID

group by p.Name

order by rank

-- By subcategory

select ps.Name,sum(po.TotalDue) as 'Amount', rank() over (order by sum(po.TotalDue)) Rank

from Production.ProductSubcategory ps

join Production.Product p on p.ProductSubcategoryID=ps.ProductSubcategoryID

join Purchasing.PurchaseOrderDetail pd on pd.ProductID=p.ProductID

join Purchasing.PurchaseOrderHeader po on po.PurchaseOrderID=pd.PurchaseOrderID

group by ps.Name

order by rank

select ps.Name,sum(po.SubTotal) as 'Amount', rank() over (order by sum(po.SubTotal)) Rank

from Production.ProductSubcategory ps

join Production.Product p on p.ProductSubcategoryID=ps.ProductSubcategoryID

join Purchasing.PurchaseOrderDetail pd on pd.ProductID=p.ProductID

join Purchasing.PurchaseOrderHeader po on po.PurchaseOrderID=pd.PurchaseOrderID

group by ps.Name

order by rank

-- By product model (top 20)

select TOP 20 pm.Name,sum(po.TotalDue) as 'Amount', rank() over (order by sum(po.TotalDue)) Rank

from Production.ProductModel pm

join Production.Product p on p.ProductModelID=pm.ProductModelID

join Purchasing.PurchaseOrderDetail pd on pd.ProductID=p.ProductID

join Purchasing.PurchaseOrderHeader po on po.PurchaseOrderID=pd.PurchaseOrderID

group by pm.Name

order by rank

select TOP 20 pm.Name,sum(po.SubTotal) as 'Amount', rank() over (order by sum(po.SubTotal)) Rank

from Production.ProductModel pm

join Production.Product p on p.ProductModelID=pm.ProductModelID

join Purchasing.PurchaseOrderDetail pd on pd.ProductID=p.ProductID

join Purchasing.PurchaseOrderHeader po on po.PurchaseOrderID=pd.PurchaseOrderID

group by pm.Name

order by rank

-- By product (top 20)

select top 20 p.Name,sum(po.TotalDue) as 'Amount', rank() over (order by sum(po.TotalDue)) Rank

from Production.Product p

join Purchasing.PurchaseOrderDetail pd on pd.ProductID=p.ProductID

join Purchasing.PurchaseOrderHeader po on po.PurchaseOrderID=pd.PurchaseOrderID

group by p.Name

order by rank

select top 20 p.Name,sum(po.SubTotal) as 'Amount', rank() over (order by sum(po.SubTotal)) Rank

from Production.Product p

join Purchasing.PurchaseOrderDetail pd on pd.ProductID=p.ProductID

join Purchasing.PurchaseOrderHeader po on po.PurchaseOrderID=pd.PurchaseOrderID

group by p.Name

order by rank

-- List of employees who purchased products with phone, email & address

Select p.firstname,p.LastName,ph.PhoneNumber,em.EmailAddress, concat(ad.AddressLine1,ad.AddressLine2,ad.City,ad.PostalCode) as Address, rank() over (order by p.firstname) Rank

from Person.person p

join HumanResources.Employee e on e.BusinessEntityID=p.BusinessEntityID

join Person.PersonPhone ph on ph.BusinessEntityID=p.BusinessEntityID

join Person.EmailAddress em on em.BusinessEntityID=p.BusinessEntityID

join Person.BusinessEntityAddress bd on bd.BusinessEntityID=p.BusinessEntityID

join person.Address ad on ad.AddressID=bd.AddressID

order by Rank

-- List of employees who purchased products with pay rate & raises (SCD)

select purchasing.PurchaseOrderHeader.EmployeeID,Person.Person.FirstName, person.person.LastName ,HumanResources.EmployeePayHistory.Rate , sum(HumanResources.EmployeePayHistory.PayFrequency\*HumanResources.EmployeePayHistory.Rate) AS Raises

from HumanResources.Employee

inner join person.Person on Person.person.BusinessEntityID=HumanResources.Employee.BusinessEntityID

inner join HumanResources.EmployeePayHistory on HumanResources.EmployeePayHistory.BusinessEntityID=HumanResources.Employee.BusinessEntityID

inner join Purchasing.PurchaseOrderHeader on Purchasing.PurchaseOrderHeader.EmployeeID= HumanResources.Employee.BusinessEntityID

inner join Purchasing.PurchaseOrderDetail on purchasing.PurchaseOrderDetail.PurchaseOrderID=Purchasing.PurchaseOrderHeader.PurchaseOrderID

inner join Production.Product on Production.Product.ProductID=PurchaseOrderDetail.ProductID

where Production.Product.MakeFlag=0

group by Person.person.FirstName, person.person.LastName,HumanResources.EmployeePayHistory.Rate,HumanResources.EmployeePayHistory.RateChangeDate,purchasing.PurchaseOrderHeader.EmployeeID

order by purchasing.PurchaseOrderHeader.EmployeeID;

-- List of purchasing vendor contacts with vendor name, phone, email & address

SELECT distinct v.Name as 'Vendor Name',ad.AddressLine1 as Address,ad.City,ad.PostalCode,sp.Name as State,em.EmailAddress,ph.PhoneNumber

FROM Purchasing.Vendor v,Person.Address ad,Person.BusinessEntity BE,Person.BusinessEntityContact Bec,Person.BusinessEntityAddress Ba, Person.EmailAddress em,Person.StateProvince sp, Person.PersonPhone ph,Person.Person p

Where v.BusinessEntityID=be.BusinessEntityID

AND be.BusinessEntityID=ba.BusinessEntityID

AND ba.AddressID=ad.AddressID

AND ad.StateProvinceID=sp.StateProvinceID

AND BE.BusinessEntityID=BEC.BusinessEntityID

AND BEC.PersonID = p.BusinessEntityID

AND p.BusinessEntityID=em.BusinessEntityID

AND p.BusinessEntityID=ph.BusinessEntityID

And p.PersonType='VC'

Order By 'Vendor Name'

--List of standard costs by product order by product and SCD effective ascending

select Production.Product.ProductID, Production.ProductCostHistory.StandardCost as StandardCost,Production.ProductCostHistory.StartDate, Production.ProductCostHistory.EndDate,Production.Product.Name from Production.Product

inner join Production.ProductCostHistory on Production.ProductCostHistory.ProductID=Production.Product.ProductID

where Production.Product.MakeFlag=0

group by Production.Product.ProductID, Production.ProductCostHistory.StandardCost,Production.ProductCostHistory.StartDate, Production.ProductCostHistory.EndDate,Production.Product.Name

order by Production.ProductCostHistory.StartDate,Production.ProductCostHistory.EndDate asc;

-- List of product prices by product order by product and SCD effective ascending

select Production.Product.ProductID, Production.ProductListPriceHistory.ListPrice as ListPrice,Production.ProductListPriceHistory.StartDate,Production.ProductListPriceHistory.EndDate,Production.Product.Name from Production.Product

inner join Production.ProductListPriceHistory on Production.ProductListPriceHistory.ProductID=Production.Product.ProductID

where Production.Product.MakeFlag=0

group by Production.Product.ProductID, Production.ProductListPriceHistory.ListPrice,Production.ProductListPriceHistory.StartDate,Production.ProductListPriceHistory.EndDate,Production.Product.Name

order by Production.ProductListPriceHistory.StartDate,Production.ProductListPriceHistory.EndDate asc;